

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of checking a sequence of input characters, wherein the sequence of input characters forms at least a portion of a complex character according to one or more rules of a selected language, comprising the steps of:

receiving a first character of a complex character;

determining whether the first character may begin a valid sequence of characters for forming a complex character according to the rules associated with the selected language;

if the first character may begin a valid sequence of characters for forming a complex character according to rules associated with the selected language, accepting the first character for display;

if the first character may not begin a valid sequence of characters for forming a complex character according to rules associated with the selected language, prohibiting accepting the first character for display; and

if the first character is accepted for display, displaying the at least a portion of a complex character formed by the first character to a user on a display screen prior to receiving any additional characters indicating to the user that the first character may begin a valid sequence of characters for forming a complex character according to rules associated with the selected language.

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2. (Previously Presented) The method of Claim 1, further comprising the steps of:

receiving a second character;

determining whether the second character may be appended to the first character according to rules associated with forming a complex character of the selected language;

if the second character may be appended to the first character according to the rules associated with forming a complex character of the selected language, appending the second character sequentially to the first character; and

if the second character may not be appended to the first character according to the rules associated with forming a complex character of the selected language, prohibiting appending the second character to the first character.

3. (Previously Presented) The method of Claim 2, wherein the step of determining whether the second character may be appended to the first character according to rules associated with forming a complex character of the selected language includes the steps of:

in a state transition table, assigning a first state to the first character according to the rules associated with the selected language;

assigning a second state to the second character according to the rules associated with the selected language;

determining whether the state transition table includes a state transition from the first state to the second state;

if the state transition table includes a state transition from the first state to the second state, determining the second character may be appended to the first character according to the rules associated with forming a complex character of the selected language; and

if the state transition table does not include a state transition from the first state to the second state, determining the second character may not be appended to the first character according to the rules associated with forming a complex character of the selected language.

4. (Previously Presented) The method of Claim 3, further comprising the steps of:

determining whether appending the second character to the first character creates a complete sequence of characters to form a complex character according to the rules associated with the selected language;

if the sequence of characters is a complete sequence of characters forming a complex character according to the rules associated with the selected language, determining

whether a third input character may begin a second valid sequence of characters for forming a complex character according to rules associated with the selected language;

if the third character may begin a second valid sequence of characters for forming a complex character according to rules associated with the selected language, accepting the third character for display; and

if the third character may not begin a second valid sequence of characters for forming a complex character according to rules associated with the selected language, prohibiting accepting the third character for display.

5. (Previously Presented) The method of Claim 4, wherein the step of determining whether appending the second character to the first character creates a complete sequence of characters to form a complex character according to the rules associated with the selected language includes the step of:

determining whether the second state points to a third transition state representing a reset transition action.

Claim 6. (Cancelled)

7. (Currently Amended) The method of Claim 2, wherein the step of prohibiting appending the second character to the first character includes the step of prohibiting the display of the at least a portion of the complex character formed by appending the second character with to the first character on a display screen; and

wherein the step of appending the second character to the first character includes the step of displaying the at least a portion of the complex character formed by appending the second character with to the first character on the display screen.

8. (Original) The method of Claim 1, wherein the first character is a simple character from the selected language.

9. (Original) The method of Claim 1, wherein the first character is comprised of two or more simple characters from the selected language.

10. (Previously Presented) The method of Claim 2, wherein the second character is a simple character from the selected language.

11. (Original) The method of Claim 1, wherein the selected language is Thai.

12. (Original) The method of Claim 1, wherein the selected language is Hindi.

13. (Original) The method of Claim 1, wherein the selected language is Vietnamese.

f 14. (Currently Amended) A computer-readable medium on which is stored a computer program for checking a sequence of input characters, wherein the sequence of input characters forms at least a portion of a complex character according to one or more rules of a selected language, the computer program comprising instructions, which when executed by a computer, perform the steps of:

receiving a character of a complex character;

determining whether the character may be appended to a previous character to form a sequence of characters according to rules associated with forming a complex character of the selected language;

if the character may be appended to the previous character according to the rules associated with forming a complex character of the selected language,

appending the character to the previous character to form a correctly configured sequence of characters according to the rules associated with the selected language; and

displaying the at least a portion of a complex character formed by the correctly configured sequence of characters on a display screen for viewing by a user prior to receiving any additional characters indicating to the user that the correctly configured sequence

of characters is at least a portion of a valid sequence of characters for forming a complex character according to rules associated with the selected language; and

if the character may not be appended to the previous character according to the rules associated with forming a complex character of the selected language, prohibiting appending the character to the previous character.

15. (Previously Presented) The computer-readable medium of Claim 14, further comprising the steps of:

determining whether the sequence of characters is a complete sequence forming a complex character in accordance with the rules associated with the selected language;

if the sequence of characters is a complete sequence of characters forming a complex character according to the rules associated with the selected language, prohibiting appending additional characters to the sequence of characters.

16. (Currently Amended) A method of checking a sequence of input characters, wherein the sequence of input characters forms at least a portion of a complex character according to one or more rules of a selected language, comprising the steps of:

receiving an input character;

if the character is not associated with the selected language, displaying the character;

if the character is associated with the selected language, determining whether the character may be displayed as a single character according to the rules of the selected language;

if the character may not be displayed as a single character according to the rules of the selected language, determining whether the character may be appended to one or more additional characters to form a valid sequence of characters for forming at least a portion of a complex character according to the rules of the selected language;

if the character may not be appended to one or more additional characters to form a valid sequence of characters for forming at least a portion of a complex character, discarding the character; and

if the character may be appended to one or more additional characters to form a valid sequence of characters for forming at least a portion of a complex character, displaying the at least a portion of a complex character formed by appending the character to the one or more additional characters on a display screen for viewing by a user prior to receiving any additional characters indicating to the user that the character is at least a portion of a valid sequence of characters for forming a complex character according to rules associated with the selected language.

17. (Previously Presented) A method of establishing a sequence validation context of a sequence of characters forming at least a portion of a complex character, comprising the steps of:

determining a maximum number of characters that may comprise a valid sequence of characters according to the rules of a selected language;

beginning with a last simple character of a sequence of characters, determining whether the last character is valid as a complete sequence of characters comprising a complex character,

if the last character of the sequence of characters is valid as a complete sequence of characters comprising a complex character, then returning a context of the last character as a context for a complex character;

if the last character of a sequence of characters is not valid as a complete sequence of characters comprising a complex character, then determining whether a combination of the last character and a character input immediately to the left of the last character is valid as a complete sequence of characters comprising a complex character,

if the combination of the last character and the character input immediately to the left of the last character is valid as a complete sequence of characters comprising a complex character, then returning a context for the combination as the context for a complex character;

if the combination is not valid as a complete sequence of characters comprising the complex character, then determining whether the combination combined with a next character to the left of the combination is valid as a complete sequence of characters comprising a complex character, and if not, then creating subsequent combinations of characters by adding

one character at a time to the left of the last subsequent combination until the maximum number of characters that may comprise a valid sequence have been combined to form a sequence of characters that may be checked for validity as a complete sequence of characters comprising a complex character; and

if one of the subsequent combinations of characters is valid as a complete sequence of characters comprising a complex character according to the rules of the selected language, then returning a context for the one subsequent combination as the context for a complex character.

18. (Currently Amended) A system for checking a sequence of input characters, wherein the sequence of input characters forms at least a portion of a complex character according to one or more rules of a selected language, comprising:

a computer program module operative

to receive a first character;

to determine whether the first character may be the first character of a sequence of characters for forming at least a portion of a complex character according to the rules associated with the selected language;

to receive a second character;

to determine whether the second character may be appended sequentially to the first character according to the rules associated with forming at least a portion of a complex character the selected language;

to append the second character sequentially to the first character forming a correctly configured combination of characters if the second character may be appended to the first character according to the rules associated with forming at least a portion of a complex character of the selected language;

to prohibit appending the second character to the first character if the second character may not be appended to the first character according to the rules associated with forming at least a portion of a complex character the selected language; and

to display to a user on a display screen the at least a portion of a complex character formed by appending the second character to the first character correctly configured combination of characters prior to receiving any additional characters indicating to the user that the correctly configured combination of characters is at least a portion of a valid sequence of characters for forming a complex character according to rules associated with the selected language.

Claims 19-22. (Cancelled)

23. (Previously Presented) The method of Claim 2, wherein the second character is appended to the first character to form a correctly configured combination of characters.

24. (Currently Amended) The method of Claim 23, wherein the at least a portion of a complex character formed by the correctly configured combination of characters is displayed to the user on the display screen prior to receiving any additional characters indicating to the user that the correctly configured combination of characters is at least a portion of a valid sequence of characters for forming a complex character according to rules associated with the selected language.

25. (Previously Presented) The computer-readable medium of Claim 14, wherein the steps of prohibiting appending the character to the previous character comprises

determining whether a character type and replace feature is on;

if the character type and replace feature is on, using a state transition table to determine whether the character may be used in the sequence of input characters;

if the character may be used in the sequence of input characters, inserting the character into the sequence of input characters;

if the character may not be used in the sequence of input characters, discarding the character.

26. (Previously Presented) The method of Claim 14, further comprising:

positioning a cursor to the right of a previously inputted sequence of input characters to validate the previously inputted sequence of input characters.

27. (Previously Presented) A method of forming at least a portion of a complex character according to one or more rules of a selected language, comprising the steps of:

receiving a first character of a complex character;

receiving a second character of a complex character;

in a state transition table, assigning a first state to the first character according to the rules associated with the selected language;

assigning a second state to the second character according to the rules associated with the selected language;

determining whether the state transition table includes a state transition from the first state to the second state;

if the state transition table includes a state transition from the first state to the second state, appending the second character to the first character to form a correctly configured combination of characters according to the rules associated with forming a complex character of the selected language; and

if the state transition table does not include a state transition from the first state to the second state, prohibiting the second character from being appended to the first character.

28. (Previously Presented) The method of Claim 27, wherein the first character is displayed to a user on a display screen prior to receiving the second character indicating to the user that the first character may form part of a valid sequence of characters for forming a complex character according to rules associated with the selected language.

29. (Previously Presented) The method of Claim 27, wherein the correctly configured combination of characters is displayed to a user on a display screen prior to receiving any additional characters indicating to the user that the correctly configured combination of

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characters may form part of a valid sequence of characters for forming a complex character according to rules associated with the selected language.

30. (Previously Presented) The method of Claim 27, further comprising the steps of:
 - determining whether appending the second character to the first character creates a complete sequence of characters to form a complex character according to the rules associated with the selected language;
 - if the sequence of characters is a complete sequence of characters forming a complex character according to the rules associated with the selected language, determining whether a third input character may begin a second valid sequence of characters for forming a complex character according to rules associated with the selected language;
 - if the third character may begin a second valid sequence of characters for forming a complex character according to rules associated with the selected language, accepting the third character for display; and
 - if the third character may not begin a second valid sequence of characters for forming a complex character according to rules associated with the selected language, prohibiting accepting the third character for display.

31. (Previously Presented) The method of Claim 30, wherein the step of determining whether appending the second character to the first character creates a complete sequence of characters to form a complex character according to the rules associated with the selected language includes the step of:

determining whether the second state points to a third transition state representing a reset transition action.